

**B.C. MINISTRY OF TRANSPORTATION**

**SA06 – Local Area Specification #4**

**BRIDGE AND TUNNEL MONITORING SERVICES**

**1. OBJECTIVE**

To detect traffic flow restrictions or obstructions and to control counterflow lane change signalization and timing.

**2. GENERAL PERFORMANCE SPECIFICATIONS**

**2.1 Routine Maintenance Services**

All services for this Local Area Specification are Routine.

The Contractor must perform Bridge and Tunnel Monitoring Services in accordance with this Local Area Specification at the following location:

George Massey Tunnel;

**2.2 Quantified Maintenance Services**

Not applicable to this Local Area Specification.

**3. DETAILED PERFORMANCE SPECIFICATIONS**

**3.1 Routine Maintenance Services**

The Contractor must:

- a) perform all aspects of monitoring services in accordance with this Local Area Specification and in accordance with the Province's Counterflow Operations Manuals, as they may be amended from time to time;
- b) provide sufficient qualified console operators; adequately operate and monitor the counterflow control computer system during the counterflow a.m. and p.m. periods;

- c) ensure that the qualified console operators:
  - i. perform dispatching duties for patrols in the event of any detected traffic accident or obstruction to traffic flow, or during counterflow lane change operations at the bridge or tunnel;
  - ii. monitor traffic and complete report logs on a schedule as required by the Province, noting all incidents and their circumstances;
  - iii. communicate with the Provincial Highways Condition Centre and complete reports on a schedule as required by the Province;
  - iv. contact police or other agencies as required in the event of a motor vehicle accident or suicide attempt;
  - v. assess weather conditions, road surface conditions and traffic congestion in conjunction with operators of patrol vehicles to determine counterflow lane change requirements, as required by the Province;
  - vi. operate the counterflow system when counterflow lane changing is required;
  - vii. respond to requests or inquiries from the media regarding traffic conditions at the Bridge or the tunnel, as required by the Province; and
  - viii. perform specific tasks in the event of a power failure to correct traffic signalization interruption, as required by the Province;
  - ix. perform VMS and CMS sign operations;
  - x. monitor and respond to incidents;
  - xi. monitor CO<sup>2</sup> and control fans accordingly;
  - xii. control lighting;
  
- d) provide a shuttle service for bicycles and their riders through the George Massey Tunnel at the following locations:
  - i. from the west side of Highway #99, opposite the Richmond Visitor's Bureau; and
  - ii. from the south end at the Town and Country Inn, at the junction of Highway #99 and Highway #17.

### 3.1.1 Performance Time Frames

The Contractor must:

- a) for the George Massey Tunnel, have at least one qualified console operator 24 hours per day;
- b) perform counterflow lane changing at the George Massey Tunnel Monday through Friday, except statutory holidays, as outlined in the Counterflow Operations Manual, and as follows:
  - i) a third northbound lane must be installed no later than 0600 hours and must be completely removed no later than 0900 hours and no earlier than 0815 hours unless otherwise directed by the Province; and
  - ii) a third southbound lane must be installed no later than 1530 hours and must be completely removed no earlier than 1800 hours unless otherwise directed by the Province;
- c) immediately, upon detection or notification of a motor vehicle incident or police incident, initiate communication with the patrols and the police; and report to the Provincial Highways Condition Centre immediately after the patrols and police have been notified;
- d) in the event of a power failure immediately initiate corrective actions;
- e) immediately communicate incidents such as fires or unusual activity affecting traffic flow to the Provincial Highways Condition Centre;
- f) perform scheduled counterflow lane change operations and patrol dispatching in accordance with the Province's Counterflow Operations Manual unless specific circumstances prohibit such action;
- g) complete traffic monitoring report logs, and provide verbal and written reports to the Provincial Highways Condition Centre and reports to radio stations or other media agencies at frequencies as required by the Province, and
- h) provide a shuttle service for bicycles and their riders in accordance with the following times and frequencies:

GEORGE MASSEY TUNNEL BIKE SHUTTLE		
SPRING SERVICE APRIL 1 TO APRIL 30		
WEEK DAYS		
	SOUTHBOUND (hours)	NORTHBOUND (hours)
	0600	0630
	0700	0730
	0800	0830
	1600	1630
	1700	1730
	1800	1830
WEEK ENDS		
	0600	0630
	0700	0730
	0800	0830
	0900	0930
	1100	1130
	1300	1330
	1500	1530
	1600	1630
	1700	1730
	1800	1830
SUMMER SERVICE MAY 1 to OCTOBER 11		
DAILY		
	SOUTHBOUND (hours)	NORTHBOUND (hours)
	0600	0630
	0700	0730
	0800	0830
	0900	0930
	1100	1130
	1300	1330
	1500	1530
	1600	1630
	1700	1730
	1800	1830

FALL SERVICE OCTOBER 12 TO OCTOBER 31		
WEEK DAYS		
	SOUTHBOUND (hours)	NORTHBOUND (hours)
	0600	0630
	0700	0730
	0800	0830
	1600	1630
	1700	1730
	1800	1830
WEEK ENDS		
	0600	0630
	0700	0730
	0800	0830
	0900	0930
	1100	1130
	1300	1330
	1500	1530
	1600	1630
	1700	1730
	1800	1830
WINTER SERVICE NOVEMBER 1 to MARCH 31		
WEEK DAYS		
	SOUTHBOUND (hours)	NORTHBOUND (hours)
	0600	0630
	0700	0730
	0800	0830
	1600	1630
	1700	1730
	1800	1830

### 3.2 Quantified Maintenance Services

Not applicable to this Local Area Specification.

### **3.3 Materials/Equipment**

The Contractor must ensure that all patrol vehicles:

- a) are in compliance with the Motor Vehicle Act and regulations regarding towing vehicles;
- b) capable of direct communication with the Provincial Highways Condition Centre and the qualified console operator (if applicable) and other patrol vehicle(s) at all times, and;
- c) be equipped with:
  - i) front push bumper and a wheel lift device;
  - ii) fire fighting equipment;
  - iii) basic first aid equipment;
  - iv) safety flares;
  - v) brooms, shovels, jumper cables and other equipment as directed by the Province;
  - vi) flashing arrow board; and
  - vii) 20 litres of liquid absorbing compound

## **4. WARRANTY**

Not applicable to this Local Area Specification.